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Report No.: SZEM180100017203

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TEST REPORT

Application No.: SZEM1801000172CR (SHEM1711007979CR)

Applicant: Kohler Co.

Address of Applicant: 444 Highland Drive Kohler, WI 53044 United States

Manufacturer: Shanghai Kohler Electronics., Ltd.

Address of Manufacturer: No. 1955, Fengxiang Road, Baoshan Area, Shanghai, PRC Post code:

200444

Factory: Shanghai Kohler Electronics., Ltd.

Address of Factory: No. 1955, Fengxiang Road, Baoshan Area, Shanghai, PRC Post code:

200444

FCC ID: N82-KOHLER025 **IC:** 4554A-KOHLER025

Equipment Under Test (EUT):

EUT Name: C3-455 Cleansing Toilet Seat

Model No.: K-8298-CR Trade mark: KOHLER

Standard(s): 47 CFR Part 15, Subpart C 15.249

RSS-210 Issue 9 Annex B.10, RSS-Gen Issue 4

Date of Receipt: 2017-11-27

Date of Test: 2017-12-22 to 2017-12-27

Date of Issue: 2018-01-09

Test Result: Pass*



Keny xu E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| | Revision Record | | | | | | | |
|--------------------------------------|-----------------|------------|--|----------|--|--|--|--|
| Version Chapter Date Modifier Remark | | | | | | | | |
| 01 | | 2018-01-09 | | Original | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|-------------------------------|--|
| | Vincent Zhu | |
| | Vincent zhu /Project Engineer | |
| | Parlam Zhan | |
| | Parlam Zhan /Reviewer | |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | | | | |
|--------------------------------------|--------------------------------------|--------|--------------------------------------|--------|--|--|--|
| Item | Standard | Method | Requirement | Result | | | |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.249; | N1/A | 47 CFR Part 15, Subpart C 15.203; | Pass | | | |
| | RSS-Gen | N/A | RSS-Gen | | | | |
| | Section 8.3 | | Section 8.3 | | | | |

| Radio Spectrum Matter Part | | | | | | |
|---|---|---|---|--------|--|--|
| Item | Standard | Method | Requirement | Result | | |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.249; RSS-210 Issue 9 Annex B.10 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207; RSS-Gen Section 8.8 | Pass | | |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.9 | 47 CFR Part 15, Subpart C 15.215 | Pass | | |
| Field Strength of the Fundamental Signal | 47 CFR Part 15, Subpart C 15.249; RSS-210 Issue 9 | ANSI C63.10 (2013) Section 6.5&6.6 | 47 CFR Part 15, Subpart C 15.249(a); | Pass | | |
| Fundamental Signal | Annex B.10 | Section 0.3do.0 | RSS-210 Issue 9 Annex B.10(a) | | | |
| Restricted Band Around Fundamental | 47 CFR Part 15, Subpart C 15.249; RSS-210 Issue 9 | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209; | Pass | | |
| Frequency | Annex B.10 | RSS-210 Issue 9 Annex B.10(b) | | | | |
| Radiated Emissions | 47 CFR Part 15, Subpart C 15.249, RSS-210 Issue 9 | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d), | Pass | | |
| | Annex B.10 | 360tion 0.400.300.0 | RSS-210 Issue 9 Annex B.10(b) | | | |
| 99% Bandwidth | RSS-210 Issue 9 Annex B.10 | RSS-Gen Section 6.6 | RSS-Gen Section 6.6 | Pass | | |



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4 General Information

4.1 Details of E.U.T.

| Power supply: | AC 120V, 60Hz |
|-----------------------|---------------------|
| Test voltage: | AC 120V, 60Hz |
| Cable: | AC cable : 120cm |
| Operation Frequency: | 2414.5MHz-2449.5MHz |
| Modulation Technique: | MSK |
| Number of Channel: | 8 |
| Antenna Type: | PCB |
| Antenna Gain: | -4dBi |

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Test Environment

| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|---|---|-----------|---|-----------|---|-----------|
| Channel | Channel Frequency Channel Frequency Channel Frequency Channel Frequency | | | | | | |
| 1 | 2414.5MHz | 3 | 2424.5MHz | 5 | 2434.5MHz | 7 | 2444.5MHz |
| 2 | 2419.5MHz | 4 | 2429.5MHz | 6 | 2439.5MHz | 8 | 2449.5MHz |

EUT has been set to work in continuously transmitting mode. And select test channel as below:

| Channel | Frequency |
|---------------------------|-----------|
| The lowest channel (CH1) | 2414.5MHz |
| The middle channel (CH5) | 2434.5MHz |
| The highest channel (CH8) | 2449.5MHz |



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4.4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty | | |
|-----|---------------------------------|-------------------------|--|--|
| 1 | Radio Frequency | 7.25 x 10-8 | | |
| 2 | Timeout | 2s | | |
| 3 | Duty cycle | 0.37% | | |
| 4 | Occupied Bandwidth | 3% | | |
| 5 | RF conducted power | 0.75dB | | |
| 6 | RF power density | 2.84dB | | |
| 7 | Conducted Spurious emissions | 0.75dB | | |
| 8 | DE Dedicted newer | 4.5dB (below 1GHz) | | |
| 0 | RF Radiated power | 4.8dB (above 1GHz) | | |
| | | 4.2dB (Below 30MHz) | | |
| 9 | Radiated Spurious emission test | 4.4dB (30MHz-1GHz) | | |
| | | 4.6dB (1GHz-18GHz) | | |
| 10 | Temperature test | 1°C | | |
| 11 | Humidity test | 3% | | |
| 12 | Supply voltages | 1.5% | | |
| 13 | Time | 3% | | |



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4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|--|------------------------|--------------------|---------------|------------|--------------|
| Conducted Emission at AC | | model No | inventory ite | oui buto | our bue bute |
| EMI test receiver | R&S | ESR7 | SHEM162-1 | 2017-11-20 | 2018-11-19 |
| LISN | Schwarzbeck | NSLK8127 | SHEM061-1 | 2017-11-20 | 2018-11-19 |
| LISN | EMCO | 3816/2 | SHEM019-1 | 2017-11-20 | 2018-11-19 |
| Pulse limiter | R&S | ESH3-Z2 | SHEM029-1 | 2017-11-20 | 2018-11-19 |
| CE test Cable | / | CE01 | / | 2017-11-20 | 2018-11-19 |
| Conducted Test | / | CEUT | / | 2017-11-20 | 2010-11-19 |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2017-11-20 | 2018-11-19 |
| Spectrum Analyzer | Agilent | N9020A | SHEM181-1 | 2017-11-20 | 2018-09-25 |
| Power meter | R&S | NRP | SHEM057-1 | 2017-09-20 | 2018-09-23 |
| Power Sensor | R&S | NRP-Z22 | SHEM136-1 | 2017-11-20 | 2018-07-21 |
| Power Sensor | R&S | NRF-Z22 NRP-Z91 | SHEM057-2 | 2017-07-22 | 2018-07-21 |
| Signal Generator | R&S | SMR40 | SHEM058-1 | 2017-11-20 | 2018-07-02 |
| | | N5182A | SHEM182-1 | 2017-07-03 | 2018-07-02 |
| Signal Generator Communication Tester | Agilent R&S | CMW270 | SHEM183-1 | 2017-09-20 | 2018-10-21 |
| Switcher | Tonscend | JS0806 | SHEM184-1 | 2017-10-22 | 2018-10-21 |
| | Anritsu | MA1612A | | / | / |
| Splitter | | | SHEM185-1 | / | / |
| Coupler High-low Temp Cabinet | e-meca Suzhou Zhihe | 803-S-1 TL-40 | SHEM186-1 | / | 2018-09-25 |
| - | | | SHEM087-1 | 2017-09-26 | |
| AC Power Stabilizer | WOCEN | 6100 | SHEM045-1 | 2017-11-20 | 2018-11-19 |
| DC Power Supply | QJE , | QJ30003SII | SHEM046-1 | 2017-11-20 | 2018-11-19 |
| Conducted test Cable | / | RF01, RF 02 | / | 2017-11-20 | 2018-11-19 |
| Radiated Test | Dec | FOLIAO | CUEMOE4 4 | 2047 44 20 | 2040 44 40 |
| EMI test receiver | R&S | ESU40 | SHEM051-1 | 2017-11-20 | 2018-11-19 |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2017-11-20 | 2018-11-19 |
| Loop Antenna (9kHz-30MHz) | Schwarzbeck | FMZB1519 | SHEM135-1 | 2017-04-10 | 2020-04-09 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM048-1 | 2017-02-28 | 2020-02-27 |
| Antenna (25MHz-3GHz) | Schwarzbeck | HL562 | SHEM010-1 | 2017-02-28 | 2020-02-27 |
| Horn Antenna (1-8GHz) | Schwarzbeck | HF906 | SHEM009-1 | 2017-10-24 | 2020-10-23 |
| Horn Antenna (1-18GHz) | Schwarzbeck | BBHA9120D | SHEM050-1 | 2017-01-14 | 2020-01-13 |
| Horn Antenna (14-40GHz) | Schwarzbeck | BBHA 9170 | SHEM049-1 | 2017-12-03 | 2020-12-02 |
| Pre-amplifier (9KHz-2GHz) | CLAVIIO | BDLNA-0001-412010 | SHEM164-1 | 2017-08-22 | 2018-08-21 |
| Pre-amplifier (1-18GHz) | CLAVIIO | BDLNA-0118-352810 | SHEM050-2 | 2017-08-22 | 2018-08-21 |
| High-amplifier (14-40GHz) | Schwarzbeck | 10001 | SHEM049-2 | 2017-11-20 | 2018-11-19 |
| Band filter | LORCH | 9BRX-875/X150-SR | SHEM156-1 | / | / |
| Band filter | LORCH | 13BRX-1950/X500-SR | SHEM083-2 | / | / |
| Band filter | LORCH | 5BRX-2400/X200-SR | SHEM155-1 | / | / |
| Band filter | LORCH | 5BRX-5500/X1000-SR | SHEM157-2 | / | / |
| High pass Filter | Wainwright | WHK3.0/18G-100SS | SHEM157-1 | / | / |
| High pass Filter | Wainwright | WHKS1700-3SS | SHEM157-3 | / | / |
| Semi/Fully Anechoic | ST | 11*6*6M | SHEM078-2 | 2017-07-22 | 2020-07-21 |
| RE test Cable | / | RE01, RE02, RE06 | / | 2017-11-20 | 2018-11-19 |



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203; RSS-Gen Issue 4 Section 8.3 Limit:

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.1.2 Conclusion

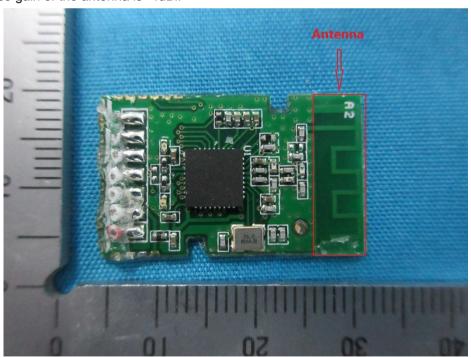
Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently

attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is PCB and integrated on the wireless module and no consideration of replacement. The best case gain of the antenna is -4dBi.





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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207; RSS-Gen Issue4 Section 8.8

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency range | Limit (dBuV) | | | |
|-----------------|--------------|-----------|--|--|
| (MHz) | Quasi-peak | Average | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | |
| 0.5-5 | 56 | 46 | | |
| 5-30 | 60 | 50 | | |

^{*} Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Engineering Mode: Using test software to control EUT working in continuous

transmitting and receiving, and select channel and modulation type

7.1.2 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The EUT was placed upon a non-metallic table 12mm above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

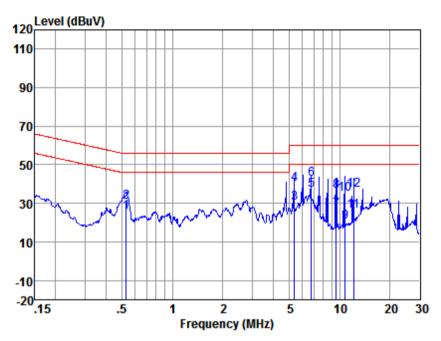
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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Mode:a; Line:Live Line



Site : chamber Condition : LISN-L-2017

EUT/Project No: 7979CR

Test mode : a

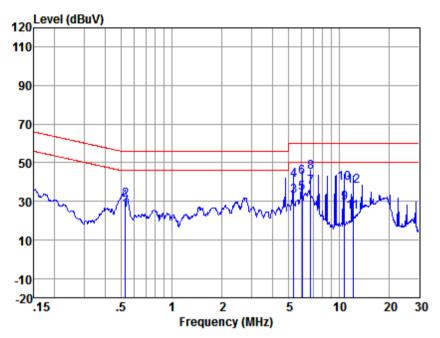
| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|----|--------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.529 | 15.66 | 0.11 | 9.82 | 25.59 | 46.00 | -20.41 | Average |
| 2 | 0.529 | 20.62 | 0.11 | 9.82 | 30.55 | 56.00 | -25.45 | QP |
| 3 | 5.362 | 19.99 | 0.11 | 9.86 | 29.96 | 50.00 | -20.04 | Average |
| 4 | 5.362 | 29.89 | 0.11 | 9.86 | 39.86 | 60.00 | -20.14 | QP |
| 5 | 6.769 | 26.63 | 0.11 | 9.86 | 36.60 | 50.00 | -13.40 | Average |
| 6 | 6.769 | 32.39 | 0.11 | 9.86 | 42.36 | 60.00 | -17.64 | QP |
| 7 | 9.552 | 16.45 | 0.10 | 9.87 | 26.42 | 50.00 | -23.58 | Average |
| 8 | 9.552 | 26.27 | 0.10 | 9.87 | 36.24 | 60.00 | -23.76 | QP |
| 9 | 10.790 | 10.24 | 0.11 | 9.88 | 20.23 | 50.00 | -29.77 | Average |
| 10 | 10.790 | 25.02 | 0.11 | 9.88 | 35.01 | 60.00 | -24.99 | QP |
| 11 | 12.124 | 15.92 | 0.12 | 9.90 | 25.94 | 50.00 | -24.06 | Average |
| 12 | 12.124 | 27.00 | 0.12 | 9.90 | 37.02 | 60.00 | -22.98 | QP |



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Mode:a; Line:Neutral Line



Site : chamber Condition : LISN-N-2017

EUT/Project No: 7979CR

Test mode : a

| | | Read | LISN | Cable | | Limit | 0ver | |
|----|--------|-------|--------|-------|-------|-------|--------|---------|
| | Freq | Level | Factor | Loss | Level | Line | Limit | Remark |
| | | | | | | | | |
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.529 | 15.78 | 0.11 | 9.82 | 25.71 | 16 00 | 20. 20 | Average |
| _ | | | | | | | | _ |
| 2 | 0.529 | 20.59 | 0.11 | 9.82 | 30.52 | 56.00 | -25.48 | QP |
| 3 | 5.362 | 22.81 | 0.13 | 9.86 | 32.80 | 50.00 | -17.20 | Average |
| 4 | 5.362 | 31.05 | 0.13 | 9.86 | 41.04 | 60.00 | -18.96 | QP |
| 5 | 6.024 | 24.49 | 0.13 | 9.86 | 34.48 | 50.00 | -15.52 | Average |
| 6 | 6.024 | 32.30 | 0.13 | 9.86 | 42.29 | 60.00 | -17.71 | QP |
| 7 | 6.769 | 27.42 | 0.13 | 9.86 | 37.41 | 50.00 | -12.59 | Average |
| 8 | 6.769 | 35.35 | 0.13 | 9.86 | 45.34 | 60.00 | -14.66 | QP |
| 9 | 10.790 | 19.26 | 0.14 | 9.88 | 29.28 | 50.00 | -20.72 | Average |
| 10 | 10.790 | 29.57 | 0.14 | 9.88 | 39.59 | 60.00 | -20.41 | QP |
| 11 | 12.124 | 14.60 | 0.15 | 9.90 | 24.65 | 50.00 | -25.35 | Average |
| 12 | 12.124 | 27.82 | 0.15 | 9.90 | 37.87 | 60.00 | -22.13 | QP |
| | | | | | | | | |



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7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2013) Section 6.9

Limit: N/A

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Engineering Mode: Using test software to control EUT working in continuous

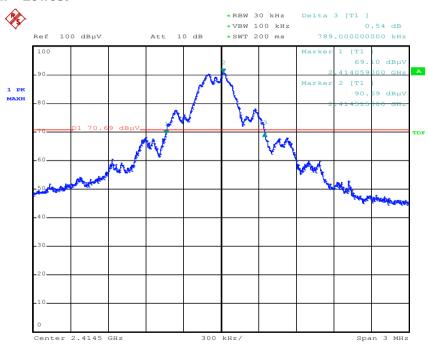
transmitting and receiving, and select channel and modulation type

7.2.2 Measurement Procedure and Data

| СН | Frequency (MHz) | Bandwidth (kHz) | Result | |
|------|-----------------|-----------------|--------|--|
| Low | 2414.5 | 789 | PASS | |
| Mid | 2434.5 | 792 | PASS | |
| High | 2449.5 | 789 | PASS | |

Test plot as follows:

Channel: Lowest

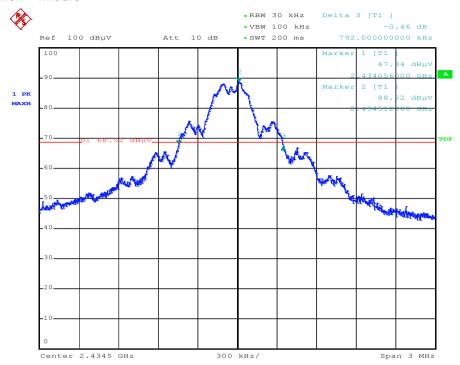




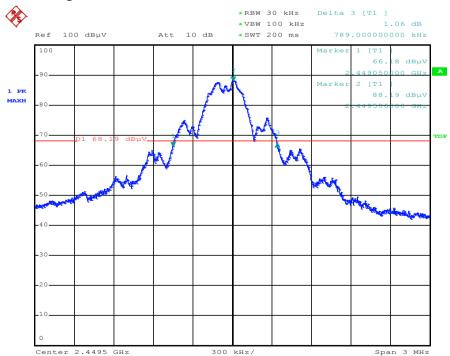
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Channel: Middle



Channel: Highest





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7.3 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)

RSS-210 Issue 9 Annex B.10(a)

Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

| Frequency | Limit (dBuV/m @3m) | Remark |
|-------------------|--------------------|---------------|
| 2400MH= 2492 FMH= | 94.0 | Average Value |
| 2400MHz-2483.5MHz | 114.0 | Peak Value |

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Engineering Mode: Using test software to control EUT working in continuous

transmitting and receiving, and select channel and modulation type

7.3.2 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 12mm above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Corrected Factor



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Mode:a; Channel:Low

| Mark | Frequency (MHz) | Reading (dBuV) | Corrected factor(dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|--------------------|-------------------|----------------------|----------------------|-------------------|--------------------|----------|--------------|
| 1 | 2414.5 | 96.04 | -3.93 | 92.11 | 94 | -1.89 | Peak | Horizontal |
| 2 | 2414.5 | 90.24 | -3.93 | 86.31 | 94 | -7.69 | Peak | Vertical |

Mode:a; Channel:middle

| Mark | Frequency (MHz) | Reading (dBuV) | Corrected factor(dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|--------------------|-------------------|----------------------|----------------------|-------------------|--------------------|----------|--------------|
| 1 | 2434.5 | 94.49 | -3.96 | 90.53 | 94 | -3.47 | Peak | Horizontal |
| 2 | 2434.5 | 91.65 | -3.96 | 87.69 | 94 | -6.31 | Peak | Vertical |

Mode:a; Channel:High

| Mark | Frequency (MHz) | Reading (dBuV) | Corrected factor(dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|--------------------|-------------------|----------------------|----------------------|-------------------|--------------------|----------|--------------|
| 1 | 2449.5 | 95.19 | -3.97 | 91.22 | 94 | -2.78 | Peak | Horizontal |
| 2 | 2449.5 | 92.02 | -3.97 | 88.05 | 94 | -5.95 | Peak | Vertical |

Note: If the test value used peak detector is less than average limit, it is deemed compliance with the standards requirement



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7.4 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

RSS-210 Issue 9 Annex B.10(b)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

| Frequency | Limit (dBuV/m @3m) | Remark |
|---------------|--------------------|------------------|
| 30MHz-88MHz | 40.0 | Quasi-peak Value |
| 88MHz-216MHz | 43.5 | Quasi-peak Value |
| 216MHz-960MHz | 46.0 | Quasi-peak Value |
| 960MHz-1GHz | 54.0 | Quasi-peak Value |
| Above 1GHz | 54.0 | Average Value |
| Above 1GHz | 74.0 | Peak Value |

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.



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7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Engineering Mode: Using test software to control EUT working in continuous

transmitting and receiving, and select channel and modulation type

7.4.2 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 12mm above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Corrected Factor



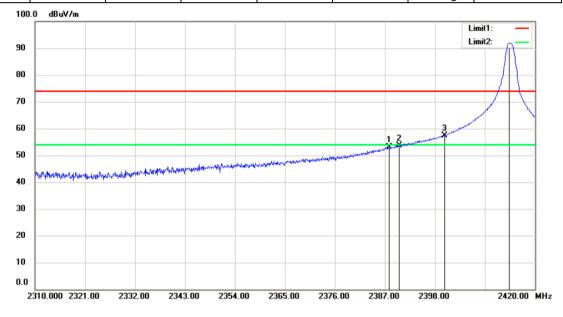
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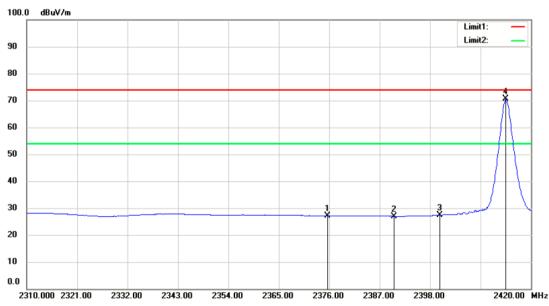
Channel: lowest

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|--------------------|---------------------|----------------------|--------------------|-------------------|--------------------|----------|--------------|
| 1 | 2387.99 | 56.96 | -3.88 | 53.08 | 74 | -20.92 Peak | | Horizontal |
| 2 | 2390 | 57.58 | -3.89 | 53.69 | 74 | -20.31 | Peak | Horizontal |
| 3 | 2400 | 61.39 | -3.92 | 57.47 | 74 | -16.53 | Peak | Horizontal |
| 4 | 2414.28 | 95.8 | -3.93 | 91.87 | 74 | 17.87 | Peak | Horizontal |
| 1 | 2375.67 | 31.05 | -3.84 | 27.21 | 54 | -26.79 | Average | Horizontal |
| 2 | 2390 | 30.85 | -3.89 | 26.96 | 54 | -27.04 | Average | Horizontal |
| 3 | 2400 | 31.25 | -3.92 | 27.33 | 54 | -26.67 | Average | Horizontal |
| 4 | 2414.5 | 74.57 | -3.94 | 70.63 | 54 | 16.63 | Average | Horizontal |





Average:



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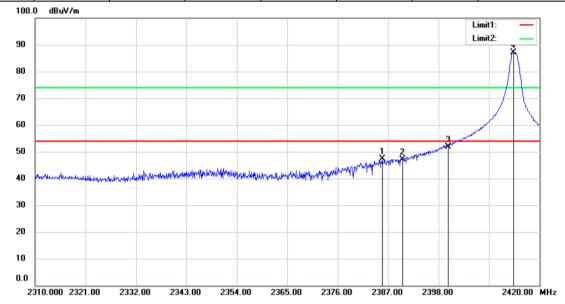
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Channel: lowest

| MK. | Frequency (MHz) | Reading (dBuV/m) | Corrected factor(dB) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|-----|--------------------|---------------------|----------------------|--------------------|-------------------|--------------------|----------|--------------|
| 1 | 2385.68 | 51.14 | -3.88 | 47.26 | 54 | -6.74 | Peak | Vertical |
| 2 | 2390 | 51.04 | -3.89 | 47.15 | 54 | -6.85 | Peak | Vertical |
| 3 | 2400 | 55.72 | -3.92 | 51.8 | 54 | -2.2 | Peak | Vertical |
| 4 | 2414.39 | 91.01 | -3.94 | 87.07 | 54 | 33.07 | Peak | Vertical |







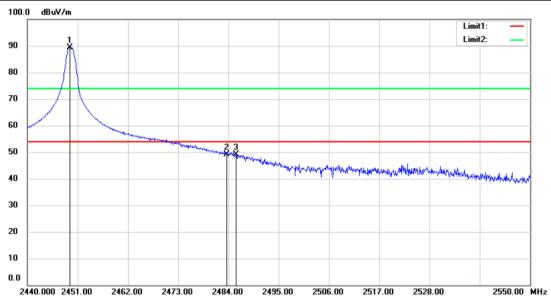
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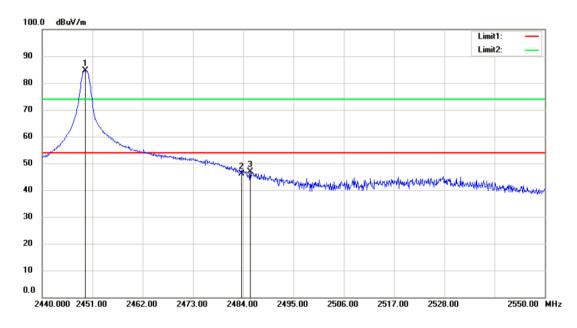
Channel: Highest

| MK. | Frequency | Reading | Corrected | Result | Limit | Over Limit | Detector | Polarization |
|---------|-----------|----------|------------|----------|----------|------------|----------|---------------|
| IVII C. | (MHz) | (dBuV/m) | factor(dB) | (dBuV/m) | (dBuV/m) | (dB) | Dottoto | 1 Glarization |
| 1 | 2449.35 | 93.41 | -3.97 | 89.44 | 54 | 35.44 | Peak | Horizontal |
| 2 | 2483.5 | 53.09 | -4.01 | 49.08 | 54 | -4.92 | Peak | Horizontal |
| 3 | 2485.65 | 53.11 | -4.01 | 49.1 | 54 | -4.9 | Peak | Horizontal |
| 1 | 2449.46 | 88.59 | -3.97 | 84.62 | 54 | 30.62 | Peak | Vertical |
| 2 | 2483.5 | 50.18 | -4.01 | 46.17 | 54 | -7.83 | Peak | Vertical |
| 3 | 2485.54 | 50.83 | -4.01 | 46.82 | 54 | -7.18 | Peak | Vertical |

Horizontal:



Vertical:





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7.5 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

RSS-210 Issue 9 Annex B.10(b)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Frequency Range: 9KHz to 25GHz

Limit:

| Frequency(MHz) | Field strength (microvolts/meter) | Limit (dBuV/m) | Detector | Measurement Distance (meters) |
|----------------|-----------------------------------|-------------------|----------|-------------------------------|
| 0.009-0.490 | 2400/F(kHz) | - | QP | 300 |
| 0.490-1.705 | 24000/F(kHz) | - | QP | 30 |
| 1.705-30 | 30 | - | QP | 30 |
| 30-88 | 100 | 40.0 | QP | 3 |
| 88-216 | 150 | 43.5 | QP | 3 |
| 216-960 | 200 | 46.0 | QP | 3 |
| 960-1000 | 500 | 54.0 | QP | 3 |
| Above 1000 | 500 | 54.0 | AV | 3 |

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Engineering Mode: Using test software to control EUT working in continuous

transmitting and receiving, and select channel and modulation type



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7.5.2 Measurement Procedure and Data Test Configuration:

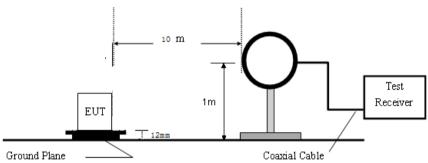


Figure 1. Below 30MHz radiated emissions test configuration

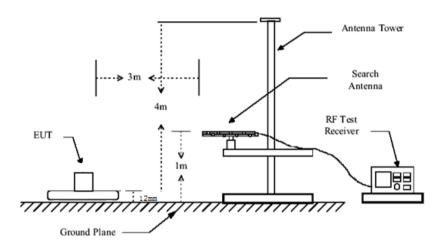


Figure 2. 30MHz to 1GHz radiated emissions test configuration

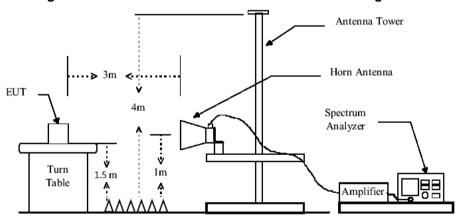


Figure 3. Above 1GHz radiated emissions test configuration

Test Procedure:

a. For below 1GHz, the EUT was placed on the top of a rotating table 12mm



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above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel,the middle channel,the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

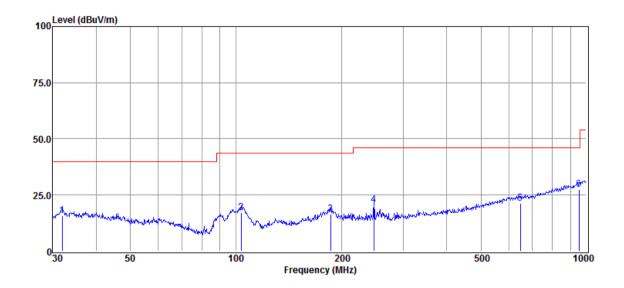
Test Result: Pass



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30MHz-1GHz: Vertical:



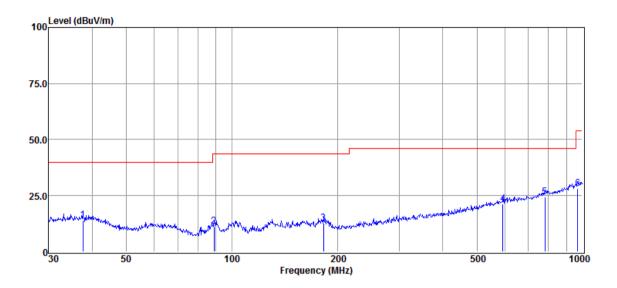
| Item | Freq. | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Result Level | Limit Line | Over Limit | Detector |
|--------|--------|---------------|-------------------|------------------|---------------|-----------------|---------------|---------------|----------|
| (Mark) | (MHz) | (dBµV) | (dB/m) | (dB) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 1 | 31.96 | 42.87 | 15.52 | 42.61 | 0.19 | 15.97 | 40.00 | -24.03 | QP |
| 2 | 103.44 | 49.87 | 9.54 | 42.69 | 0.47 | 17.19 | 43.50 | -26.31 | QP |
| 3 | 186.44 | 47.51 | 10.83 | 42.55 | 0.67 | 16.46 | 43.50 | -27.04 | QP |
| 4 | 247.68 | 50.82 | 11.40 | 42.46 | 0.77 | 20.53 | 46.00 | -25.47 | QP |
| 5 | 647.39 | 42.36 | 19.80 | 42.23 | 1.51 | 21.44 | 46.00 | -24.56 | QP |
| 6 | 952.09 | 43.17 | 23.29 | 41.50 | 2.63 | 27.59 | 46.00 | -18.41 | QP |



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Horizontal:



| Item | Freq. | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Result Level | Limit Line | Over Limit | Detector |
|--------|--------|---------------|-------------------|------------------|---------------|-----------------|---------------|---------------|----------|
| (Mark) | (MHz) | (dBµV) | (dB/m) | (dB) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 1 | 37.55 | 40.45 | 16.08 | 42.62 | 0.21 | 14.12 | 40.00 | -25.88 | QP |
| 2 | 88.96 | 45.43 | 8.09 | 42.68 | 0.41 | 11.25 | 43.50 | -32.25 | QP |
| 3 | 182.56 | 43.10 | 11.47 | 42.55 | 0.67 | 12.69 | 43.50 | -30.81 | QP |
| 4 | 593.05 | 43.01 | 19.27 | 42.18 | 1.36 | 21.46 | 46.00 | -24.54 | QP |
| 5 | 782.35 | 43.27 | 21.63 | 42.50 | 2.01 | 24.41 | 46.00 | -21.59 | QP |
| 6 | 968.93 | 43.43 | 23.47 | 41.40 | 2.69 | 28.19 | 54.00 | -25.81 | QP |



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Above 1GHz:

Channel: lowest

| Mark | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|------|--------------------|-------------------|----------------|----------------------|-------------------|--------------------|----------|--------------|
| 1 | 4829 | 39.81 | 6.45 | 46.26 | 54 | -7.74 | peak | Horizontal |
| 2 | 7243.5 | 39.6 | 10.79 | 50.39 | 54 | -3.61 | peak | Horizontal |
| 3 | 9658 | 35.96 | 14.35 | 50.31 | 54 | -3.69 | peak | Horizontal |
| 4 | 4829 | 40.94 | 6.45 | 47.39 | 54 | -6.61 | peak | Vertical |
| 5 | 7243.5 | 40.47 | 10.79 | 51.26 | 54 | -2.74 | peak | Vertical |
| 6 | 9658 | 36.10 | 14.35 | 50.45 | 54 | -3.55 | peak | Vertical |

Channel: Middle

| | Onamion. | maaio | | | | | | |
|------|-----------|---------|--------|----------|----------|------------|----------|--------------|
| Mark | Frequency | Reading | Factor | Emission | Limit | Over Limit | Detector | Polarization |
| | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4869 | 40.53 | 6.86 | 47.39 | 54 | -6.61 | peak | Horizontal |
| 2 | 7303.5 | 39.18 | 11.06 | 50.24 | 54 | -3.76 | peak | Horizontal |
| 3 | 9738 | 36.57 | 14.36 | 50.93 | 54 | -3.07 | peak | Horizontal |
| 4 | 4869 | 42.94 | 6.86 | 49.80 | 54 | -4.20 | peak | Vertical |
| 5 | 7303.5 | 36.68 | 11.06 | 47.74 | 54 | -6.26 | peak | Vertical |
| 6 | 9738 | 31.93 | 14.36 | 46.29 | 54 | -7.71 | peak | Vertical |

Channel: Highest

| | • mannon | 111911001 | | | | | | |
|------|-----------|-----------|--------|----------|----------|------------|----------|--------------|
| Mark | Frequency | Reading | Factor | Emission | Limit | Over Limit | Detector | Polarization |
| | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | | |
| 1 | 4899 | 38.17 | 7.19 | 45.36 | 54 | -8.64 | peak | Horizontal |
| 2 | 7348.5 | 36.48 | 11.25 | 47.73 | 54 | -6.27 | peak | Horizontal |
| 3 | 9798 | 35.44 | 14.37 | 49.81 | 54 | -4.19 | peak | Horizontal |
| 4 | 4899 | 39.17 | 7.19 | 46.36 | 54 | -7.64 | peak | Vertical |
| 5 | 7348.5 | 35.75 | 11.25 | 47.00 | 54 | -7.00 | peak | Vertical |
| 6 | 9798 | 33.57 | 14.37 | 47.94 | 54 | -6.06 | peak | Vertical |



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7.6 99% Bandwidth

Test Requirement RSS-Gen Issue 4 Section 6.6
Test Method: RSS-Gen Issue 4 Section 6.6

Limit: N/A

7.6.1 E.U.T. Operation

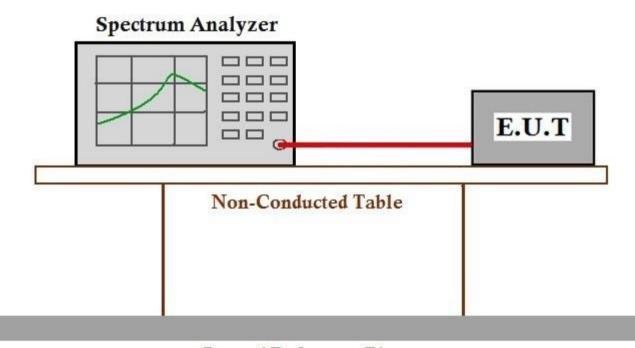
Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Engineering Mode: Using test software to control EUT working in continuous

transmitting and receiving, and select channel and modulation type

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

| СН | Frequency (MHz) | Bandwidth (MHz) | | |
|------|-----------------|-----------------|--|--|
| Low | 2414.5 | 0.798 | | |
| Mid | 2434.5 | 0.795 | | |
| High | 2449.5 | 0.762 | | |

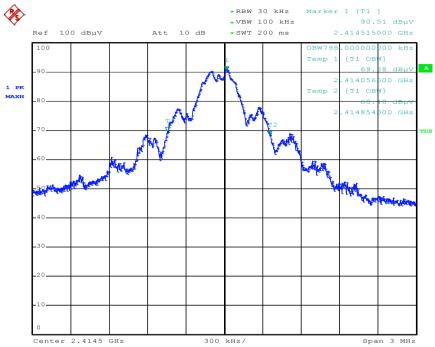


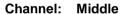
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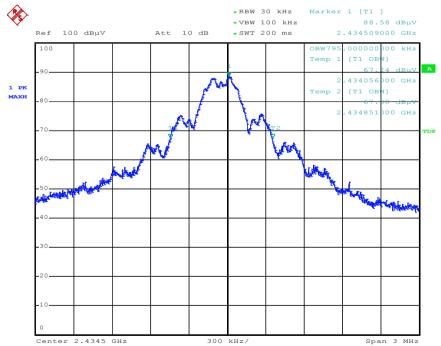
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Test plot as follows:

Channel: Lowest





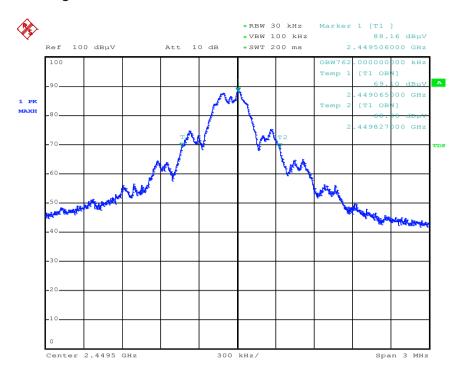




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Channel: Highest





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8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < External Photos > & <Internal Photos>.

- End of the Report -